# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 04/23/2021 09:26 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 04/05/2021 10:33 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 12757 | Expiration Date: | 06/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124293 | -1 | 3.15 | 124185 | 3.21 |
| Blue | F | SSC | 125000 | 125127 | 0 | 4.69 | 125410 | 4.78 |
| Blue | E | FITC | 14400 | 13923 | -4 | 3.45 | 321 | 15.40 |
| Blue | D | PE | 24713 | 24188 | -3 | 3.11 | 553 | 11.18 |
| Blue | B | PerCP-Cy5-5 | 31796 | 30827 | -4 | 4.13 | 1020 | 15.37 |
| Blue | A | PE-Cy7 | 21240 | 21013 | -2 | 5.86 | 562 | 29.73 |
| Red | C | APC | 41319 | 40414 | -3 | 3.64 | 1687 | 11.41 |
| Red | A | APC-Cy7 | 21019 | 20444 | -3 | 3.92 | 765 | 11.56 |
| Violet | B | V450 | 7305 | 6931 | -6 | 4.10 | 421 | 12.36 |
| Violet | A | V500 | 28652 | 27334 | -5 | 3.72 | 682 | 10.18 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23265 | 3.21 | 568 | -1 | N/A | N/A | Pass |
| Blue | F | SSC | 57772 | 3.87 | 522 | 10 | N/A | N/A | Pass |
| Blue | E | FITC | 58 | 52.95 | 495 | 4 | 0.0428 | 33 | Pass |
| Blue | D | PE | 115 | 35.73 | 492 | 5 | 0.3466 | 201 | Pass |
| Blue | B | PerCP-Cy5-5 | 190 | 35.71 | 588 | 4 | 0.0177 | 0 | Pass |
| Blue | A | PE-Cy7 | 112 | 68.64 | 636 | 6 | 0.0211 | 0 | Pass |
| Red | C | APC | 390 | 23.08 | 574 | 1 | 0.0287 | 118 | Pass |
| Red | A | APC-Cy7 | 172 | 26.22 | 546 | 1 | 0.0066 | 717 | Pass |
| Violet | B | V450 | 59 | 58.24 | 451 | -5 | 0.0573 | 1665 | Pass |
| Violet | A | V500 | 98 | 32.86 | 465 | -5 | 0.0237 | 496 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -32.43 | -32.32 | 1.07 |
| Blue | 20.36 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.39 |
| Red | 20.33 | 15.99 - 23.99 | N/A | N/A | 30.74 | 30.93 | 1.17 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.74

## Threshold

Threshold (FSC): 14766

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments